

AN EVALUATED NEUTRONIC DATA FILE FOR BISMUTH

by

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Abstract

A comprehensive evaluated neutronic data file for bismuth, extending from 10^{-5} eV to 20.0 MeV, is described. The experimental database, the application of the theoretical models, and the evaluation rationale are outlined. Attention is given to uncertainty specification, and comparisons are made with the prior ENDF/B-V evaluation. The corresponding numerical file, in ENDF/B-VI format, has been transmitted to the National Nuclear Data Center, Brookhaven National Laboratory.

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